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10/567,761	02/10/2006	Kenichi Mori	13241/14	5641
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	SUITE 700 WASHINGTON, DC 20005		ART UNIT	PAPER NUMBER
			1795	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/567,761	MORI ET AL.				
Office Action Summary	Examiner	Art Unit				
	CHANCEITY N. ROBINSON	1795				
The MAILING DATE of this communication ap	pears on the cover sheet with the c	orrespondence address				
Period for Reply	V IO OFT TO EVEIDE A MONTH	0) 00 7 400 7 400				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 23 J	lanuarv 2009.					
	s action is non-final.					
3) Since this application is in condition for allower						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-28</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-28</u> is/are rejected.						
7) Claim(s) is/are objected to.	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examin	er.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
See the attached detailed Office action for a lis	tor the certified copies not receive	u.				
Attachment(s)						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:	atent Application				

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 01/23/2009 has been entered.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claim 26 recites the limitation "the remaining solvent comprises a ketone". However, claim 1 does not recite a "remaining solvent". There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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5. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 6. Claims 1-4, 9 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kuwabara (US 2002/0127395 A1) in view of Inno et al. (US 6,083,664).

Regarding claims 1-4, 9 and 13, Kuwabara discloses a near infrared absorption material comprising: a transparent substrate, and at least a transparent resin layer formed thereon, containing a near infrared absorption dye (800 to 1200 nm) and a dye selectively absorbing a light of 550 to 630 nm wavelength region (abstract) .Kuwabara discloses a resin is provided on a transparent substrate film [0026-0027]. Kuwabara discloses the near infrared absorbing dye comprises an aromatic diimmonium salt type compound [0035 & 0038]. Kuwabara discloses the light transmittance of 10% to 60% in a range of 550 nm in a wavelength to 600 nm in wavelength [0052], and a light transmittance of not higher than 20% in a range of 820 nm in a wavelength to 1100 nm in a wavelength [0037]. Further, Kuwabara discloses a coating solution containing near-infrared dye, resin, and organic solvent on a transparent substrate film, followed by drying (heating) to form a near-infrared absorption layer [0026, 0053-0057 and examples].

Kuwabara does not explicitly disclose a composition containing silicone-type surfactant having an HLB in a range of 2 to 12 is contained at 0.01% to 2.0% by mass in the composition. However, Inno et al. disclose a substrate used to form a film (column 3, lines 9-19). Inno et al.

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disclose layer (near-infrared layer) provided thereon the substrate (col. 3, line 26-31) comprising a light-to-heat conversion material (dye; col.4, lines 34-48), a binder (resin, col. 4, lines 49-52), a pigment and a surfactant for improving the coating property (col. 5, lines 26-46). Inno et al. discloses the use of nonionic silicone-type surfactant with HLB is from 6 to 11 (2 to 12) and contained in the amount from 0.01 to 10% (0.01 to 2.0 %) by weight. See col. 11, lines 5-36. Inno et al. teach the nonionic silicone-type surfactant aid in adhesion property of the surface. (col. 11, lines 39-47). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to include silicone-type surfactant having an HLB in a range of 6 to 11 is contained at 0.01% to 10.0% by mass in the composition of Kuwabara, because Inno et al. teach the nonionic silicone-type surfactant aid in adhesion property of the surface.

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7. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kuwabara (US 2002/0127395 A1) in view of Inno et al. (US 6,083,664) as applied to claims 1-4, 9 and 13 above, and further in view of Sato et al. (JP 2004-202899).

Regarding claim 5, Kuwabara in view of Inno et al. discloses the film as supplied to claim 1 above, but fails to disclose a transparent substrate film made of a laminated film made of at least three layers or more or an ultraviolet layer. Sato et al. discloses a similar transparent, laminating polyester film that contains that is made of three layers (paragraph [0008]), and an ultraviolet ray absorbent (paragraph [0014]) is provided within the inner layer (paragraphs [0008] and [0013]). The laminated film will have the capacity to cut-off ultraviolet rays so that decomposition will not take place during film production (paragraph [0004]). It would have been obvious to one of ordinary skill in the art to use the transparent film of Sato et al. in place of the

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transparent substrate film of Kuwabara to further enhance the capacity to cut-off ultraviolet rays in order to prevent the decomposition of the film during its production.

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8. Claims 6-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kuwabara (US 2002/0127395 A1) in view of Inno et al. (US 6,083,664) as applied to claims 1-4, 9 and 13 above, and further in view of Taki et al. (US 6,703,138).

With respect to claims 6 and 7, Kuwabara in view of Inno et al. discloses the film as supplied to claim 1 above as well as an resin intermediate layer between the image forming a layer and substrate (paragraph [0195]), but fails to disclose the type of resin and acid value of that resin. Taki et al. discloses an adhesive laminated film that includes a acrylic resin with acid value of at least 200 eq./t along with polyester resins, or a copolymer (including block and graft copolymers - column 4, lines 60-61) of two or more of these resins and contains at least one monomer that comprises an acid anhydride containing a double bond (column 5, lines 22-29). If the acid value is lower than 200 eq./t, the acrylic resin is not sufficiently water soluble or water-dispersible causing polar groups to remain unchanged therefore lowering the water resistance of the coating layer (column 5, lines 5-14). Further, the use of graft polymers has been proposed to improve the adhesion of polyester films (column 1, lines 31-38). It would be obvious to one of ordinary skill in the art to include adhesive layer of Taki et al. in place of intermediate layer of the image forming material of Kuwabara in view of Inno et al. to further enhance water resistance and the adhesion of the coating layer.

9. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kuwabara (US 2002/0127395 A1) in view of Inno et al. (US 6,083,664) as applied to claims 1-4, 9 and 13 above, and further in view of Oya (US 2003/0186040).

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With respect to claim 8, Kuwabara in view of Inno et al. discloses the film as supplied to claim 1 above, but fails to disclose the light transmission of the near-infrared absorption film. Oya discloses a similar near-infrared ray film that comprises a near-infrared light absorber (paragraph [0038]), glass substrate (paragraph [0170)], a resin (paragraph [0044]), and surfactant (paragraph [0145]) wherein the film has a total transmittance of 60% or more between the wavelengths of 400 to 650 nm (paragraph [0034]) and transmittances at 850 nm and 950 nm to 20% or less (paragraphs [0027] and [0036]). When total transmittance is lower than 60% of wavelengths between 400 to 600 nm, the entire image becomes dark and power consumption for achieving brightness increases (paragraph [0034]). When the transmittances for near infrared rays having wavelengths of 850 nm and 950 nm are higher than 20%, near infrared rays radiated from the plasma display may not be shielded completely, whereby the peripheral equipment of the plasma display may malfunction (paragraph [0027]). It would be obvious to on of ordinary skill in the art to use a film having the light transmittance properties of the near-infrared film of Oya in the near-infrared film of Kuwabara in view of Inno et al. to prevent the production of dark images and possible malfunction of the peripheral equipment of the plasma display. 10. Claims 10 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over

With respect to claims 10 and 24, Kuwabara in view of Inno et al. discloses the film as supplied to claim 1 above, but fails to disclose an anti-reflective layer. Moriwaki et al discloses a laminated film that comprises a resin [0049], colorant [0046] and [0047] layer provided on a substrate film [0060] wherein an antireflection layer is formed on one side of the substrate and

Kuwabara (US 2002/0127395 A1) in view of Inno et al. (US 6,083,664) as applied to claims 1-4,

9 and 13 above, and further in view of Moriwaki et al. (US 2003/0021935).

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where the colored adhesive (colorant layer) is formed on the other side of the substrate [0060]. The laminated film has the colorant layer formed on the opposite side to the antireflective layer (paragraph [0061]). Further, the laminated film is used so that the antireflection layer is on the observer side, and the colorant layer (or the colored adhesive layer) is on the display device (such as cathode ray tube) side (paragraph [0061]). The use of an antireflective layer can prevent reflection on the surface of the panel glass and make the brightness of an image more uniform regarding production of CRT (paragraph [0007]). It would have been obvious to one of ordinary skill in the art at the time of the invention to use an antireflective layer as disclosed by Moriwaki et al. within the film of Kuwabara in view of Inno et al. to prevent the reflection of the surface of the panel glass of a CRT display and provide a more uniform image.

11. Claims 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kuwabara (US 2002/0127395 A1) in view of Inno et al. (US 6,083,664) as applied to claims 1-4, 9 and 13 above, and further in view of Kumano et al. (JP 2003-127310).

With respect to claims 11 and 12, Kuwabara in view of Inno et al. discloses the film as applied to claim 1 above, but fails to disclose a near-infrared film roll. Kumano et al. discloses the process for preparing a cavity-containing polyester- based film roll in which the total color difference (E) in the film roll is 1.0 (paragraph [0020]) or less and wherein the color difference is a measurement incorporating the average color tone value, L (paragraph 0020). If the color difference is too large, then the color tone fluctuation within the lot of a film roll will become large therefore spoiling the design nature of the patterned printing layer and the stability of the film (paragraph [0020]). To make the color difference smaller, it is important to decrease the segregation of the material inside to receive proper distribution of the color pigment (paragraph

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[0021]). It is the examiner's position that the color difference can be obtained using any said length or width because stretching and widening film can be performed to obtain any desired color difference. Also, color tone is also dependent upon the amount of color pigment within the film that will also affect the color difference. It would have been obvious to one of ordinary skill within the art at the time of the invention to provide a film roll comprising the image forming material of Kuwabara in view of Inno et al. and having a color difference of 1.0 or lower by measuring the color tone of the film as taught by Kumano et al. to preserve the design nature of the patterned printing layer and the stability of the film.

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12. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kuwabara (US 2002/0127395 A1) in view of Inno et al. (US 6,083,664) as applied to claims 1-4, 9 and 13 above, and further in view of Kubo (US 6,770,430).

With respect to claim 14, Kuwabara in view of Inno et al. discloses the film (image forming material) as applied to claim 13 above, but fails to disclose a multi-stage drying after coating a film on a substrate. Kubo discloses a thermally processed image forming material wherein a coating of material is applied to a substrate and dried with from 25 to 40 degrees C for (at a constant drying rate) and then heated again to 80 degrees C (paragraph [0204]). For preventing uneven processing due to dimensional changes, it is preferred to heat the material the material at 80-115 degrees C for 5 seconds then heating the material from 110 to 140 degree to produce the image (multi-stage heating) (column 29, lines 35-39). It would have been obvious to one of ordinary skill within the art at the time of the invention to apply a multi-stage heating process as disclosed by Kubo et al. to the image forming material of Kuwabara in view of Inno et al. to prevent uneven processing in the production of an image.

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13. Claims 15 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Kuwabara (US 2002/0127395 A1) in view of Inno et al. (US 6,083,664) as applied to claims 1-4,

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9 and 13 above, and further in view of Ogawa et al. (US 2004/0071883).

With respect to claims 15 and 16, Kuwabara in view of Inno et al. disclose the film (image

forming material) as applied to claim 13 above but fails to disclose the use of reverse gravure

method in applying forming material. Ogawa et al discloses a method and apparatus for coating a

thin film comprising a reverse gravure coating type roll (paragraph [0033] and Figure 1) wherein

the diameter of the gravure roll (1)in Figure 1 not smaller than 15mm (paragraph [0091]). In the

case when the diameter of the gravure roll falls below 15 mm, when the doctor blade (3) is

pressed against the gravure roll (1), the roll is bent so much causing unevenness of coating due to

the rotation of the roll (paragraph [0091]). It would have been obvious to one of ordinary skill in

the art at the time of the invention to use reverse gravure method with a diameter of 15 mm or

more as disclosed within Ogawa et al. in applying the image forming material Kuwabara in view

of Inno et al. to prevent unevenness of the coating to a substrate.

14. Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kuwabara (US

2002/0127395 A1) in view of Inno et al. (US 6,083,664) as applied to claims 1-4, 9 and 13

above, and further in view of Kumano et al. (JP 2003-127310).

However, Kuwabara in view of Inno et al. disclose a process for preparing a film roll that

has a maximum color difference of 1.0 or smaller. Kumano et al. discloses the process for

preparing a cavity-containing polyester- based film roll in which the total color difference (E) in

the film roll is 1.0 (paragraph [0020]) or less and wherein the color difference is a measurement

incorporating the average color tone value, L (paragraph 0020). If the color difference is too

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large, than the color tone fluctuation within the lot of a film roll will become large therefore spoiling the design nature of the patterned printing layer and the stability of the film (paragraph [0020]). To make the color difference smaller, it is important to decrease the segregation of the material inside to receive proper distribution of the color pigment (paragraph [0021]). It is the examiner's position that the color difference can be obtained using any said length or width because stretching and widening film can be performed to obtain any desired color difference. Also, color tone is also dependent upon the amount of color pigment within the film that will also affect the color difference. It would have been obvious to one of ordinary skill within the art at the time of the invention to prepare a film roll comprising the image forming material of Kuwabara in view of Inno et al. wherein the film has a color difference of 1.0 or lower by measuring the color tone of the film as taught by Kumano et al. to preserve the design nature of the patterned printing layer and the stability of the film.

15. Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kuwabara (US 2002/0127395 A1) in view of Inno et al. (US 6,083,664) as applied to claim 17 above, and further in view of Iwasaki et al. (US 4,948,635)

With respect to claim 18, Kuwabara in view of Inno et al. disclose the film as applied to claim 1 above along with drying of the film (paragraph [0219]) but fails to disclose the use of a gravure apparatus in applying coating solution. Iwasaki et al. discloses a gravure coating device and method wherein the velocity of the gravure roll and of the web affects the thickness of the application of the coating agent (column 12, lines 30-35 and FIG. 9). As the velocity increase, the thickness of the coating agent will increase (See FIG. 9). Iwasaki also teaches that in prior art that wrinkles are produced on the surface side of the web (film) when the web is thin (column 2,

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lines 5-10) from the clamping force of the rolls (column 2, lines 5-10). It is the position of the examiner that one would adjust the rotational rate and running rate of the film by increasing the thickness of the film in order achieve smoothness and prevent wrinkles from occurring in the film. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to use a gravure coating apparatus as disclosed by Iwasaki et al. in applying the film of modified Kuwabara in view of Inno et al. to prevent wrinkling of the film on its surface side as well as to increase film thickness to achieve smoothness in film.

16. Claim19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kuwabara (US 2002/0127395 A1) in view of Inno et al. (US 6,083,664) as applied to claim 17 above, and further in view of Ogawa et al. (US 2004/0071883).

With respect to claim 19, Kuwabara in view of Inno et al. discloses the film as applied to claim 17 above along with drying of the film (paragraph [0219]). However, Kuwabara in view of Inno et al. fails to disclose the use of a gravure coating apparatus in preparing a film roll.

Ogawa et al discloses a method and apparatus for coating a thin film comprising a reverse gravure coating type roll (paragraph [0033] and Figure 1) wherein apparatus (100) has a gravure roll (1) is made of ceramic (paragraph [0098]) and a doctor blade (3) that is capable of scrapping off the excess coating solution (paragraph [0099]) by coming in contact with the gravure roll (paragraph [0100]). The excess coating solution is recycled to the coating solution supply (61) by the coating solution recovery portion 73 (paragraph [0057]). In the case that the diameter of the gravure roll is too low, when the doctor blade (3) is pressed against the gravure roll (1), the roll is bent so much causing unevenness of coating due to the rotation of the roll (paragraph [0091]). It would have been obvious to one of ordinary skill in the art at the time of the invention to use a

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reverse gravure method with a diameter of 15 mm or more as disclosed within Ogawa et al. in applying the image forming material Kuwabara in view of Inno et al. to prevent unevenness of the coating.

17. Claims 20 -21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kuwabara (US 2002/0127395 A1) in view of Inno et al. (US 6,083,664) as applied to claims 1 and 13 above, and further in view of Iwasaki et al. (US 4,948,635).

With respect to claim 20 and 21, Kuwabara in view of Inno et al. disclose the film as applied to claims 1 and 13 above. However, Kuwabara in view of Inno et al. fails to disclose the use of a gravure coating apparatus and method of in preparing a film roll. Iwasaki et al. discloses a gravure coating device and method wherein the velocity of the gravure roll and of the web affects the thickness of the application of the coating agent (column 12, lines 30-35 and FIG. 9). As the velocity increase, the thickness of the coating agent will increase (FIG. 9). Iwasaki also teaches that in prior art that wrinkles are produced on the surface side of the web (film) when the web is thin (column 2, lines 5-10) from the clamping force of the rolls (column 2, lines 5-10). It is the position of the examiner that one would adjust the rotational rate and running rate of the film by increasing the thickness of the film in order achieve smoothness and prevent wrinkles from occurring in the film. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to use a gravure coating apparatus as disclosed by Iwasaki et al. in applying the film of Kuwabara in view of Inno et al. to prevent wrinkling of the film on its surface side as well as to increase film thickness to achieve smoothness in film.

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18. Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kuwabara (US 2002/0127395 A1) in view of Inno et al. (US 6,083,664 as applied to claim 20 above, and further in view of Ogawa et al. (US 2004/0071883).

With respect to claim 22, Kuwabara in view of Inno et al. disclose the process for preparing a near infrared film as applied to claim 20 above along with drying of the film (paragraph [0219]). However, Kuwabara in view of Inno et al. fail to disclose the use of a gravure coating apparatus in preparing a film roll. Ogawa et al. discloses a method and apparatus for coating a thin film comprising a reverse gravure coating type roll (paragraph [0033] and Figure 1) wherein apparatus (100) has a gravure roll (1) is made of ceramic (paragraph [0098]) and a doctor blade (3) that is capable of scrapping off the excess coating solution (paragraph [0099]) by coming in contact with the gravure roll (paragraph [0100]). The excess coating solution is recycled to the coating solution supply (61) by the coating solution recovery portion 73 (paragraph [0057]). In the case that the diameter of the gravure roll is too low, when the doctor blade (3) is pressed against the gravure roll (1), the roll is bent so much causing unevenness of coating due to the rotation of the roll (paragraph [0091]). It would have been obvious to one of ordinary skill in the art at the time of the invention to use a reverse gravure method with a diameter of 15 mm or more as disclosed within Ogawa et al. in applying the image forming material of Kuwabara in view of Inno et al. to prevent unevenness of the coating. 19. Claim 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kuwabara (US 2002/0127395 A1) in view of Inno et al. (US 6,083,664) as applied to claim 20 above, and further in view of Kubo (US 6,770,430).

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With respect to claim 23, Kuwabara in view of Inno et al disclose the process for preparing a near infrared film as applied to claim 20 above along with drying of the film (paragraph [0219]) however, Kuwabara in view of Inno et al. fail to disclose a multi-stage drying process after coating a film on a substrate. Kubo discloses a thermally processed image forming material wherein a coating of material is applied to a substrate and dried with from 25 to 40 degrees C for (at a constant drying rate) and then heated again to 80 degrees C (paragraph [0204]). For preventing uneven processing due to dimensional changes, it is preferred to heat the material the material at 80-115 degrees C for 5 seconds then heating the material from 110 to 140 degree to produce the image (multi-stage heating) (column 29, lines 35-39). It would have been obvious to on of ordinary skill within the art at the time of the invention to apply a multi-stage heating process as disclosed by Kubo et al. to the image forming material of Kuwabara in view of Inno et al. to prevent uneven processing in the production of an image.

20. Claims 26-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kuwabara (US 2002/0127395 A1) in view of Inno et al. (US 6,083,664) as applied to claims 1-4, 9 and 13 above and further in view of Shouji et al. (US 5,691,838).

Regarding claim 26-27, Kuwabara in view of Inno et al. do not explicitly disclose the organic solvent comprises a ketone in the amount in the range of 30% to 80%. However, Shouji et al. disclose infrared-blocking optical filter comprising a transparent film substrate (abstract). Shouji et al. disclose a coating solution comprises a ketone in the range of 30% to 80 %. as a dispersing medium. See column 7, lines 54-57 and col. 11, lines 1-5. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to include a ketone to

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the coating solution of Kuwabara in view of Inno et al., because Shouji et al. disclose the ketone are used as a dispersing medium.

21. Claim 25 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kuwabara (US 2002/0127395 A1) in view of Inno et al. (US 6,083,664) as applied to claim 1 above, and further in view of Hanada et al. (US 6,734,946).

Regarding claim 25, Kuwabara in view of Inno et al. do not explicitly disclose a near-absorption layer comprises a remaining solvent, and the concentration of the remaining solvent in the near infrared ray absorption layer is in the range of 0.01 to 5% by mass. However, Hanada et al. disclose a liquid crystal display component and transparent conduction substrate (abstract). Hanada et al. disclose a coated film with a remaining solvent in a concentration of 0.08% allowing for balance and tension strength. See example 1. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to include a remaining solvent in the film of Kuwabara in view of Inno et al., because Hanada et al. disclose the remaining solvent allows for balance and tension strength.

Response to Amendment

Claim Rejections - 35 USC § 103

26. The 35 USC 103 (A) rejection as being unpatentable over Onomichi et al. (US 2001/0005278) in view of Ito et al. (US 6,699,580) on claims 1, 2, 4 and 13 have been withdrawn, because claims 1 and 13 have been amended.

Response to Arguments

27. Applicant's arguments with respect to claims 1-28 have been considered but are moot in view of the new ground(s) of rejection.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHANCEITY N. ROBINSON whose telephone number is (571)270-3786. The examiner can normally be reached on Monday to Thursday: 7:30 am-6:00

pm eastern time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Cynthia Kelly can be reached on (571)272-1526. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

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